# STIC Search Report
## Biotech-Chem Library

STIC Database Tracking Number: 163379

| | |
|---|---|
| **TO: Nyeemah Grazier**<br>**Location: REM/5B29/5C18**<br>**Art Unit: 1626**<br>Sept. 7, 2005<br><br>**Case Serial Number: 10/680346** | **From: P. Sheppard**<br>**Location: Remsen Building**<br>**Phone: (571) 272-2529**<br><br>**sheppard@uspto.gov** |

## Search Notes

ACCESS DB # 163379

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**Scientific and Technical Information Center**

# SEARCH REQUEST FORM

Requester's Full Name: Nyeemah Grazier Examiner # : 81002 Date: 8/22/05
Art Unit: 1626 Phone Number: 2-8782 Serial Number: 10/689,346
Location (Bldg/Room#): TB29 Rem (Mailbox #): 5C18 Results Format Preferred (circle): PAPER DISK

**********

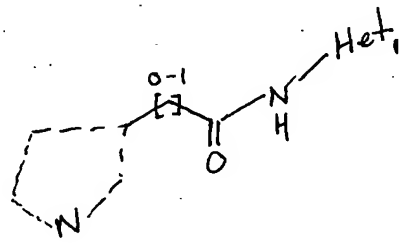
**To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:**

Title of Invention: Pyrrolecarboxamides and pyrrolethioamides as fungicides
Inventors (please provide full names): Harold Walter, Hermann Schneider.

Earliest Priority Date: 10/7/03

**Search Topic:**
***Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.***

***For Sequence Searches Only*** ***Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.***




$Het_1$ = 5 membered ring containing 1 sulfur/N/O atom and 3 to 4 carbons substituted at one of the carbon w/ a phenyl ring.

**********

**STAFF USE ONLY**

Searcher: _____
Searcher Phone #: _____
Searcher Location: _____
Date Searcher Picked Up: _____
Date Completed: _____
Searcher Prep & Review Time: _____
Online Time: _____

**Type of Search**

_____ NA Sequence (#)
_____ AA Sequence (#)
_____ Structure (#)
_____ Bibliographic
_____ Litigation
_____ Fulltext
_____ Other

**Vendors and cost where applicable**

_____ STN _____ Dialog
_____ Questel/Orbit _____ Lexis/Nexis
_____ Westlaw _____ WWW/Internet
____ In-house sequence systems
___ Commercial ___ Oligomer ___ Score/Length
___ Interference ___ SPDI ___ Encode/Transl
_____ Other (specify)

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=> d his ful

     (FILE 'HOME' ENTERED AT 15:48:40 ON 07 SEP 2005)

     FILE 'REGISTRY' ENTERED AT 15:49:03 ON 07 SEP 2005
L3             STR
L4           50 SEA SSS SAM L3
L5         3347 SEA SSS FUL L3
L6             STR
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L8          190 SEA SUB=L5 SSS FUL L6 AND L7
L9             STR L6
L10            STR L9
L11            STR L10
L12          19 SEA SUB=L8 SSS FUL L10 OR L11

     FILE 'HCAPLUS' ENTERED AT 15:55:23 ON 07 SEP 2005
L13           5 SEA ABB=ON  PLU=ON  L12
                D STAT QUE
                D IBIB ABS HITSTR L13 1-5



     FILE HOME

     FILE REGISTRY
     Property values tagged with IC are from the ZIC/VINITI data file
     provided by InfoChem.

     STRUCTURE FILE UPDATES:    6 SEP 2005  HIGHEST RN 862534-94-9
     DICTIONARY FILE UPDATES:   6 SEP 2005  HIGHEST RN 862534-94-9

     New CAS Information Use Policies, enter HELP USAGETERMS for details.

     TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

       Please note that search-term pricing does apply when
       conducting SmartSELECT searches.

     ************************************************************
     *                                                          *
     * The CA roles and document type information have been removed from *
     * the IDE default display format and the ED field has been added,   *
     * effective March 20, 2005.  A new display format, IDERL, is now    *
     * available and contains the CA role and document type information. *
     *                                                          *
     ************************************************************

     Structure search iteration limits have been increased.  See HELP SLIMITS
     for details.

     Experimental and calculated property data are now available. For more
     information enter HELP PROP at an arrow prompt in the file or refer
     to the file summary sheet on the web at:
     http://www.cas.org/ONLINE/DBSS/registryss.html

     FILE HCAPLUS
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FILE COVERS 1907 - 7 Sep 2005 VOL 143 ISS 11
FILE LAST UPDATED: 6 Sep 2005 (20050906/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 15:55:23 ON 07 SEP 2005
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FILE COVERS 1907 - 7 Sep 2005 VOL 143 ISS 11
FILE LAST UPDATED: 6 Sep 2005 (20050906/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

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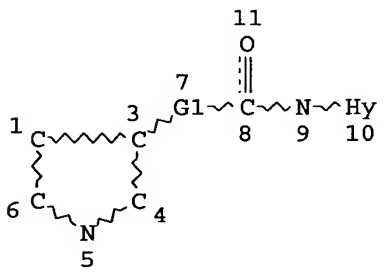
=> d stat que
L3 STR



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GGCAT IS MCY AT 10
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE
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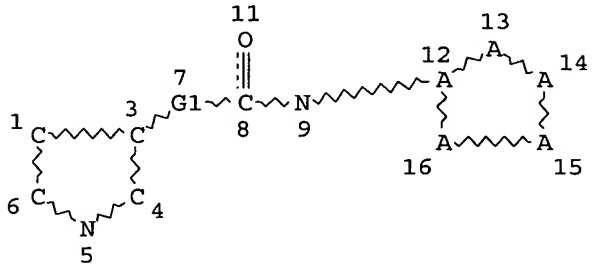
L6 STR

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STEREO ATTRIBUTES: NONE
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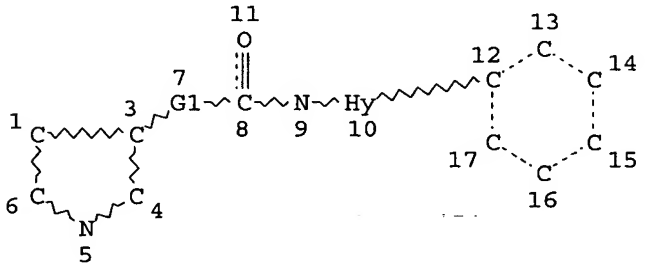


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GGCAT IS MCY AT 10
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
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STEREO ATTRIBUTES: NONE

L8 190 SEA FILE=REGISTRY SUB=L5 SSS FUL L6 AND L7
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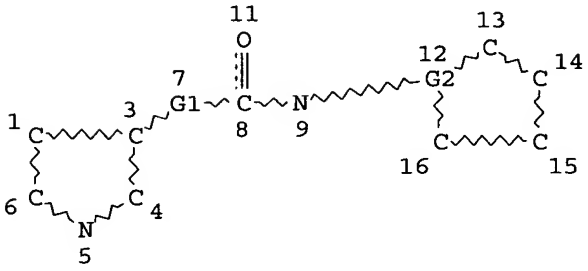

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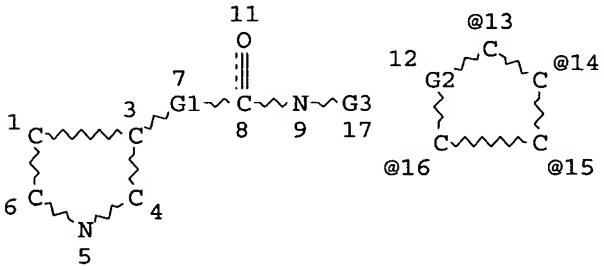

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE
L12 19 SEA FILE=REGISTRY SUB=L8 SSS FUL L10 OR L11
L13 5 SEA FILE=HCAPLUS ABB=ON PLU=ON L12

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=> d ibib abs hitstr l13 1-5

L13 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:696342 HCAPLUS
DOCUMENT NUMBER: 141:225302
TITLE: Preparation of N-arylheterocycles as melanin concentrating hormone (MCH) antagonists.
INVENTOR(S): Schwink, Lothar; Stengelin, Siegfried; Gossel, Matthias; Boehme, Thomas; Hessler, Gerhard; Stahl, Petra; Gretzke, Dirk
PATENT ASSIGNEE(S): Aventis Pharma Deutschland GmbH, Germany
SOURCE: PCT Int. Appl., 390 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2004072025 | A2 | 20040826 | WO 2004-EP1342 | 20040213 |
| WO 2004072025 | A3 | 20041223 | | |
| W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ, MZ, NA, NI | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| DE 10306250 | A1 | 20040909 | DE 2003-10306250 | 20030214 |
| US 2004220191 | A1 | 20041104 | US 2004-779853 | 20040217 |
| PRIORITY APPLN. INFO.: | | | DE 2003-10306250 A | 20030214 |
| | | | US 2003-488545P P | 20030718 |

OTHER SOURCE(S): MARPAT 141:225302
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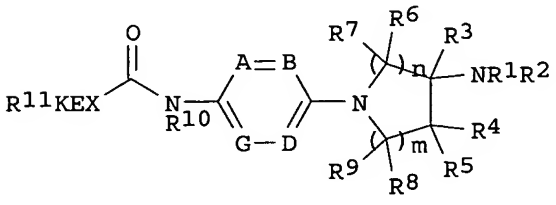


I

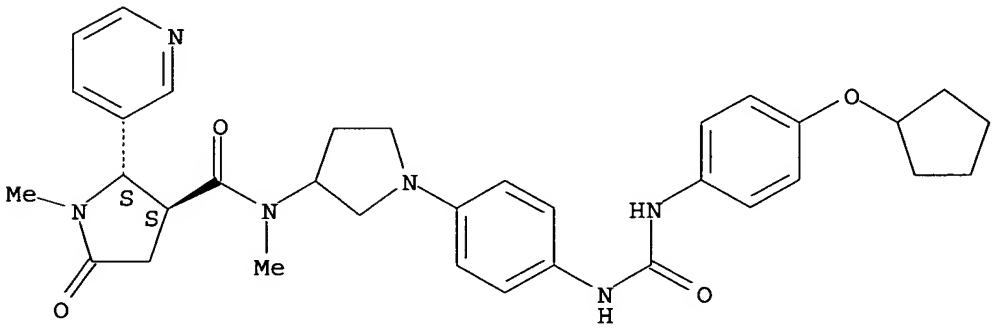
AB Title compds. [I; R1, R2 = H, alkyl, alkoxyalkyl, aryloxyalkyl, alkylcarbonyl, alkenylcarbonyl, etc.; R1R2N = atoms to form a 4-10 membered mono-, bi-, or spirocyclic (substituted) ring; R3 = H, alkyl; R4, R5 = H, alkyl, OH, alkoxy, alkylcarbonyloxy, alkylthio; R6-R9 = H, alkyl; R6R7, R8R9 = O; A, B, D, G = N, CR42; AB, DG = CR42; R42 = H, F, Cl, Br, iodo, CF3, NO2, cyano, OCF3, alkoxy, alkylthio, alkenyl, cycloalkyl, cycloalkoxy, cycloalkenyl, alkynyl, CO2H, etc.; R10 = H, alkyl, alkenyl, alkynyl; X = NR52, O, bond, C:C, C.tplbond.C, etc.; R52 = H, alkyl; E = (substituted) C3-14 carbocyclyl, heterocyclyl; K = bond, O, CH2O, S, SO,

CO, C:C, C.tplbond.C, etc.; R11 = H, alkyl, alkoxyalkyl, alkenyl, alkynyl, 3-10 membered (substituted) mono-, bi-, tri- or spirocyclic ring; EKR11 = (unsatd.) tricyclic ring; m, n = 0-2], were prepared Thus, N-[1-(4-aminophenyl)pyrrolidin-3-yl]piperidine was treated with carbonyldiimidazole and then with 4-(4-chlorophenyl)piperidine to give 4-(4-chlorophenyl)piperidine-1-carboxylic acid [4-[3-(acetylmethylamino)pyrrolidin-1-yl]phenyl]amide. The latter at 30 mg/kg orally in female NMRI mice reduced milk consumption by 64%.

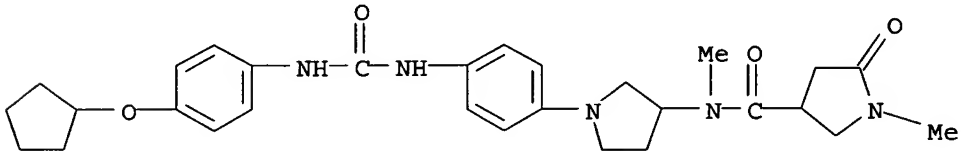
IT **748167-62-6P 748167-67-1P 748167-68-2P 748167-69-3P 748167-70-6P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of N-arylheterocycles as MCH antagonists)

RN 748167-62-6 HCAPLUS
CN 3-Pyrrolidinecarboxamide, N-[1-[4-[[[[4-(cyclopentyloxy)phenyl]amino]carbonyl]amino]phenyl]-3-pyrrolidinyl]-N,1-dimethyl-5-oxo-2-(3-pyridinyl)-, (2R,3R)-rel- (9CI) (CA INDEX NAME)

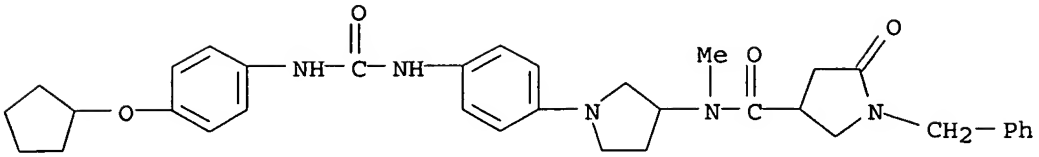
Relative stereochemistry.



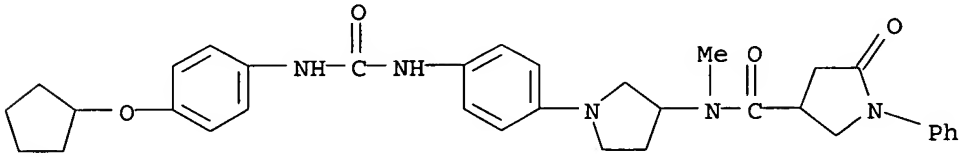
RN 748167-67-1 HCAPLUS
CN 3-Pyrrolidinecarboxamide, N-[1-[4-[[[[4-(cyclopentyloxy)phenyl]amino]carbonyl]amino]phenyl]-3-pyrrolidinyl]-N,1-dimethyl-5-oxo- (9CI) (CA INDEX NAME)



RN 748167-68-2 HCAPLUS
CN 3-Pyrrolidinecarboxamide, N-[1-[4-[[[[4-(cyclopentyloxy)phenyl]amino]carbonyl]amino]phenyl]-3-pyrrolidinyl]-N-methyl-5-oxo-1-(phenylmethyl)- (9CI) (CA INDEX NAME)

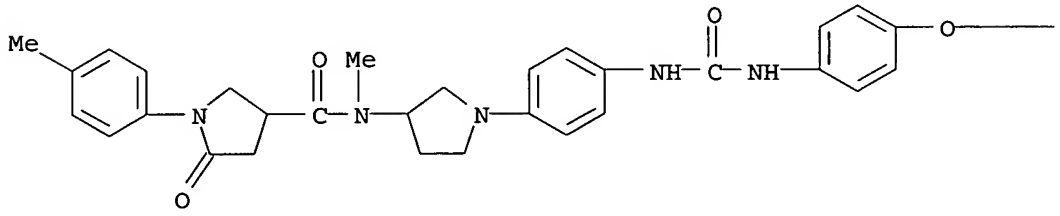


RN 748167-69-3 HCAPLUS
CN 3-Pyrrolidinecarboxamide, N-[1-[4-[[[[4-(cyclopentyloxy)phenyl]amino]carbonyl]amino]phenyl]-3-pyrrolidinyl]-N-methyl-5-oxo-1-phenyl- (9CI) (CA INDEX NAME)



RN 748167-70-6 HCAPLUS
CN 3-Pyrrolidinecarboxamide, N-[1-[4-[[[[4-(cyclopentyloxy)phenyl]amino]carbonyl]amino]phenyl]-3-pyrrolidinyl]-N-methyl-1-(4-methylphenyl)-5-oxo- (9CI) (CA INDEX NAME)

PAGE 1-A



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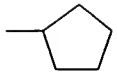

L13 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:545661 HCAPLUS
DOCUMENT NUMBER: 135:137397
TITLE: Preparation of pyrrolecarboxamides and pyrrolethioamides as fungicides
INVENTOR(S): Walter, Harald; Schneider, Hermann
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 111 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2001053259 | A1 | 20010726 | WO 2001-EP592 | 20010119 |
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| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| CA 2397008 | AA | 20010726 | CA 2001-2397008 | 20010119 |
| BR 2001007738 | A | 20021022 | BR 2001-7738 | 20010119 |
| EP 1252140 | A1 | 20021030 | EP 2001-907468 | 20010119 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| JP 2003520269 | T2 | 20030702 | JP 2001-553263 | 20010119 |
| AU 772635 | B2 | 20040506 | AU 2001-35433 | 20010119 |
| ZA 2002005641 | A | 20031103 | ZA 2002-5641 | 20020715 |
| US 2004049035 | A1 | 20040311 | US 2002-181702 | 20021008 |
| US 6806286 | B2 | 20041019 | | |
| US 2004106521 | A1 | 20040603 | US 2003-680346 | 20031007 |
| PRIORITY APPLN. INFO.: | | | GB 2000-1447 A | 20000121 |
| | | | WO 2001-EP592 W | 20010119 |
| | | | US 2002-181702 A3 | 20021008 |

OTHER SOURCE(S): MARPAT 135:137397

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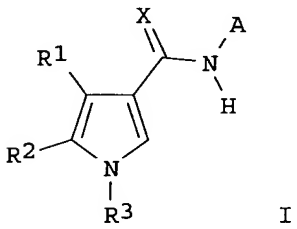


I

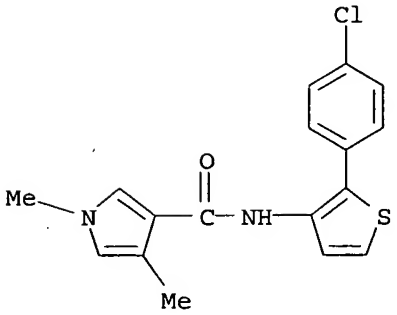
AB The title compds. [I; X = O, S; R1 = alkyl, cycloalkyl, halo; R2 = H, alkyl, alkoxy, etc.; R3 = alkyl; A = (un)substituted ortho-substituted (hetero)aryl, bicyclo(hetero)aryl] which have plant-protective properties and are suitable for protecting plants against infestations by phytopathogenic microorganisms, were prepared Thus, methylation of Me 4-methylpyrrole-3-carboxylate followed by hydrolysis of the resulting ester, and reaction of 1,4-dimethylpyrrole-3-carboxylic acid with 2-(4'-fluorophenyl)aniline afforded I [X = O; R1, R3 = Me; R2 = H; A = 4'-fluorobiphenyl-2-yl] which showed strong efficacy against Puccinia recondita on wheat (< 20% infestation).

IT **351416-74-5P 351416-75-6P 351416-76-7P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyrrolecarboxamides and pyrrolethioamides as fungicides)

RN 351416-74-5 HCAPLUS

CN 1H-Pyrrole-3-carboxamide, N-[2-(4-chlorophenyl)-3-thienyl]-1,4-dimethyl-

(9CI) (CA INDEX NAME)




RN 351416-75-6 HCAPLUS
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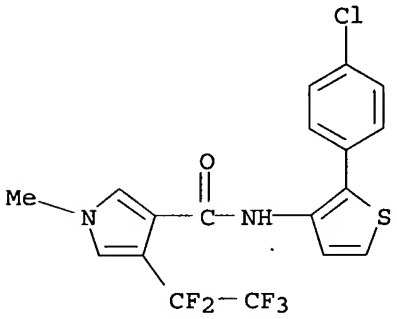


RN 351416-76-7 HCAPLUS
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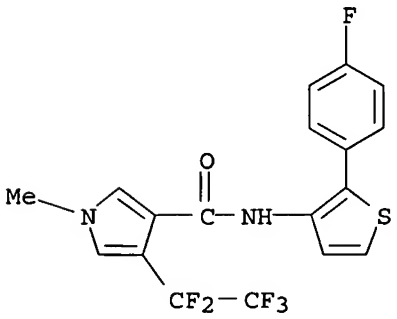



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

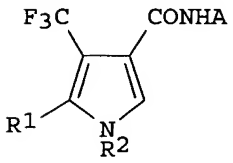
L13 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:133660 HCAPLUS
DOCUMENT NUMBER: 132:166122
TITLE: (Trifluoromethyl)pyrrolecarboxamides
INVENTOR(S): Eberle, Martin; Walter, Harald

PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis-Erfindungen Verwaltungsgesellschaft m.b.H.
SOURCE: PCT Int. Appl., 35 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2000009482 | A1 | 20000224 | WO 1999-EP5837 | 19990810 |
| W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| TW 576831 | B | 20040221 | TW 1999-88107745 | 19990513 |
| AU 9955138 | A1 | 20000306 | AU 1999-55138 | 19990810 |
| AU 756140 | B2 | 20030102 | | |
| BR 9912962 | A | 20010508 | BR 1999-12962 | 19990810 |
| EP 1105375 | A1 | 20010613 | EP 1999-941573 | 19990810 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| TR 200100478 | T2 | 20010621 | TR 2001-200100478 | 19990810 |
| JP 2002522526 | T2 | 20020723 | JP 2000-564936 | 19990810 |
| US 2002019541 | A1 | 20020214 | US 2001-780897 | 20010209 |
| US 6365620 | B2 | 20020402 | | |

PRIORITY APPLN. INFO.: GB 1998-17548 A 19980812
WO 1999-EP5837 W 19990810

OTHER SOURCE(S): MARPAT 132:166122
GI



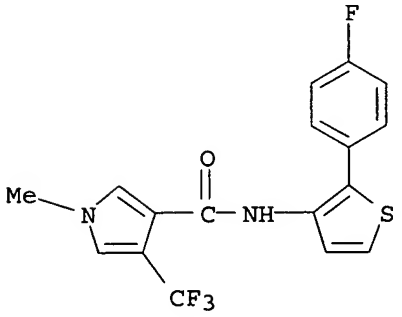

I

AB Title compds. I (R1 = H, halo, alkyl, haloalkyl; R2 = alkyl, haloalkyl, alkoxyalkyl, cyano, alkylsulfonyl, arylsulfonyl, etc.; A = substituted Ph, substituted 3-thienyl, substituted 4-indanyl) were prepared as plant protectants. Thus, 1.9 g 1-methyl-4-(trifluoromethyl)pyrrole-3-carboxylic acid, obtained from Et 4,4,4-trifluorocrotonate, tosylmethyl isocyanide, and MeI, and 0.9 mL oxalyl chloride in 20 mL CH2Cl2 was stirred at room temperature in the presence of a catalytic amount of DMF, the solvent was evaporated under reduced pressure to give a crystalline solid, and the solid was added to a solution of 1.7 g of 2-biphenylamine and 4.2 mL Et3N in 20 mL CH2Cl2 at 0°, and the reaction mixture was stirred for 2 h at room temperature to

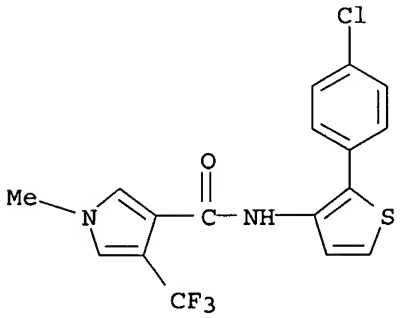
give I (R1 = H, R2 = Me, A = 2-biphenylyl). Application of this compound on apples, grapes, and tomatoes resulted in <10% infestation by Botrytis cinerea.

IT **258510-88-2P 258510-89-3P 258510-91-7P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
((trifluoromethyl)pyrrolecarboxamides as plant protectants)

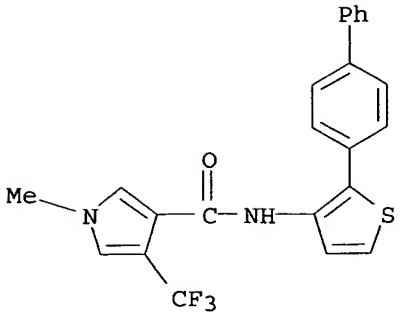
RN 258510-88-2 HCAPLUS
CN 1H-Pyrrole-3-carboxamide, N-[2-(4-fluorophenyl)-3-thienyl]-1-methyl-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)




RN 258510-89-3 HCAPLUS
CN 1H-Pyrrole-3-carboxamide, N-[2-(4-chlorophenyl)-3-thienyl]-1-methyl-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)




RN 258510-91-7 HCAPLUS
CN 1H-Pyrrole-3-carboxamide, N-(2-[1,1'-biphenyl]-4-yl-3-thienyl)-1-methyl-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)

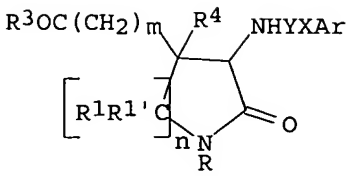



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1992:591677 HCAPLUS
DOCUMENT NUMBER: 117:191677
TITLE: Preparation of pyrrolidinonecarboxylic acids and related compounds as cholecystokinin antagonists
INVENTOR(S): Becker, Daniel Paul; Flynn, Daniel Lee; Villamil, Clara Ines
PATENT ASSIGNEE(S): G.D. Searle and Co., USA
SOURCE: PCT Int. Appl., 213 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9210476 | A1 | 19920625 | WO 1991-US8648 | 19911125 |
| W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MC, MG, MN, MW, NL, NO, PL, RO, SD, SE, SU, US | | | | |
| RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, ML, MR, NL, SE, SN, TD, TG | | | | |
| US 5202344 | A | 19930413 | US 1990-626590 | 19901211 |
| CA 2097517 | AA | 19920612 | CA 1991-2097517 | 19911125 |
| AU 9190571 | A1 | 19920708 | AU 1991-90571 | 19911125 |
| EP 561941 | A1 | 19930929 | EP 1992-901239 | 19911125 |
| EP 561941 | B1 | 19950104 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| JP 06503827 | T2 | 19940428 | JP 1991-502321 | 19911125 |
| ES 2067322 | T3 | 19950316 | ES 1992-901239 | 19911125 |
| US 5314886 | A | 19940524 | US 1992-968617 | 19921029 |
| PRIORITY APPLN. INFO.: | | | US 1990-626590 A1 | 19901211 |
| | | | WO 1991-US8648 A | 19911125 |

OTHER SOURCE(S): MARPAT 117:191677
GI



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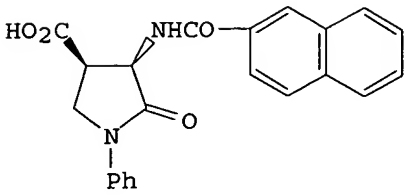


II

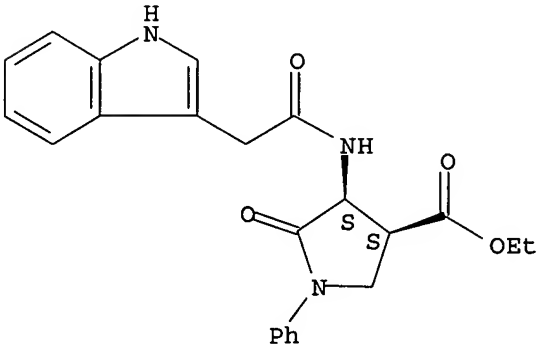
AB Title compds. I [Ar = (substituted) aryl, (substituted) heterocyclyl (substituted) bicyclic hydrocarbyl, etc.; R = C1-8 alkyl where 1 C atom may be replaced by O, (substituted) aryl, -aralkyl; X = bond, NH, O, C1-3 alkylene; n = 0, 1; R1, R1' = H, C1-4 alkyl; m = 0-3; R3 = OH, OR5; R5 = C1-6 alkyl, NR6R7; R6,R7 = H, C1-6 alkyl, NR8R9; R8,R9 = (substituted) C4-6 alkylene; R4 = H, C1-4 alkyl; Y = CO, SO2] were prepared as cholecystokinin (CCK) antagonists useful for treatment of CCK related disorders of the gastrointestinal tract, central nervous system, and appetite regulatory system. Thus, Et 4-amino-5-oxo-1-phenyl-3-pyrrolidinecarboxylate (preparation given) was amidated by 2-naphthoyl chloride and the product formed was hydrolyzed to give title compound II. II had IC50 of 0.015 μM against 125I-CCK-OP binding to rat pancreatic membranes.

IT **144023-49-4P 144023-94-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as cholecystokinin antagonist)

RN 144023-49-4 HCAPLUS

CN 3-Pyrrolidinecarboxylic acid, 4-[(1H-indol-3-ylacetyl)amino]-5-oxo-1-phenyl-, ethyl ester, cis- (9CI) (CA INDEX NAME)

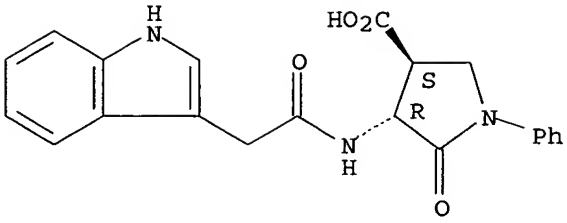
Relative stereochemistry.



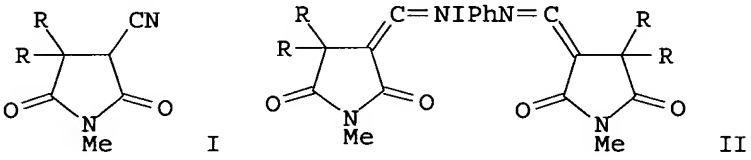
RN 144023-94-9 HCAPLUS

CN 3-Pyrrolidinecarboxylic acid, 4-[(1H-indol-3-ylacetyl)amino]-5-oxo-1-phenyl-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L13 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1978:135903 HCAPLUS
DOCUMENT NUMBER: 88:135903
TITLE: Oxidation of 3-cyano-2,5-pyrrolidinediones by iodosobenzene diacetate; evidence for keteniminyliodonium intermediates
AUTHOR(S): Morel, Georges; Marchand, Evelyne; Seveno, Anne; Foucaud, Andre
CORPORATE SOURCE: Groupe Rech. Chim. Struct., Univ. Rennes, Rennes, Fr.
SOURCE: Tetrahedron Letters (1977), (38), 3353-6
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: French
GI

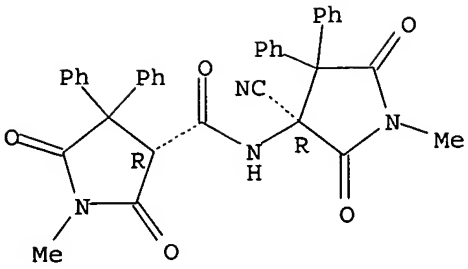


AB The formation of keteniminyliodonium complexes in the oxidation of the cyanopyrrolidinediones I (R = Ph; R2 = 2-C6H4C6H4-2) with PhI(OAc)2 was determined by a study of the stereochem. of their reactions with ROH (R = Me, Et, Me2CH, Me3C). Complexes of the type II are proposed.

IT **65855-28-9P 65855-29-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and dehydration of)

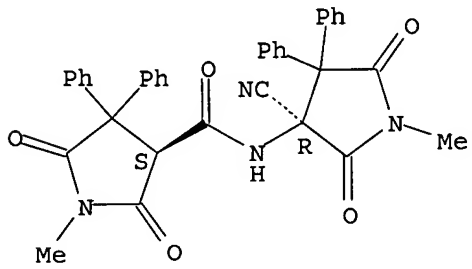
RN 65855-28-9 HCAPLUS
CN 3-Pyrrolidinecarboxamide, N-(3-cyano-1-methyl-2,5-dioxo-4,4-diphenyl-3-pyrrolidinyl)-1-methyl-2,5-dioxo-4,4-diphenyl-, (R*,R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

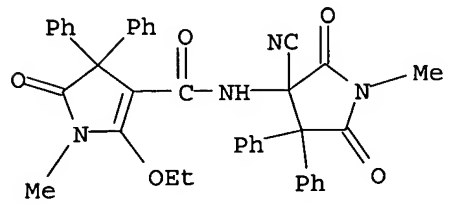


RN 65855-29-0 HCAPLUS
CN 3-Pyrrolidinecarboxamide, N-(3-cyano-1-methyl-2,5-dioxo-4,4-diphenyl-3-pyrrolidinyl)-1-methyl-2,5-dioxo-4,4-diphenyl-, (R*,S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT **65855-27-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 65855-27-8 HCAPLUS
CN 1H-Pyrrole-3-carboxamide, N-(3-cyano-1-methyl-2,5-dioxo-4,4-diphenyl-3-pyrrolidinyl)-2-ethoxy-4,5-dihydro-1-methyl-5-oxo-4,4-diphenyl- (9CI) (CA INDEX NAME)



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